HySense® QT 100* / QT 110*

- **Thousandfold proven measuring turbine**
- **Measures acc. to the flow principle**
- **Output signal analog or frequency**
- **Developped for mineral oils**
- **Allows bi-directional volume flow rate measurement**
- **Optional with Hydrotechnik ISDS**

Features

Calibration viscosity	30 cSt[1]
Output signal	frequency (square wave) / 4 ... 20 mA
Electrical meas. connector	6-pole (ISDS) or 5-pole device plug, M16 x 0.75
Protection type (EN 60529 / IEC 529)	IP 40
Material casing / turbine wheel	Aluminium AlZnMgCu 1.5 / 1.4122 or 1.0718
Material sealings	FKM

Technical data

Mounting orientation	arbitrary
Supply voltage Ub	12 ... 24 VDC
Current consumption	12 ... 15 mA (frequency) / 24 ... 31 mA (4 ... 20 mA)
Over-voltage protection	36 VDC
Response time	none (frequency) / 250 ms (4 ... 20 mA)
Medium temperature	max. 120 °C
Environmental / storage temperature	-20 ... +85 °C

	Output signal	Measuring range (l/min)	Viscosity range mm²/s (cSt)	Measuring connector	Allowed working pressure bar	MPa	PSI	Error limits	Weight g	Order number	Code[4]
... with ISDS	**QT 100** frequency (square wave)	1.0 ... 10.0	1 ... 30	ISO228-G¼	420	42	6,000	± 0.5 %[2]	630	31V7-01-S-35.030	01
		2.0 ... 75.0	1 ... 100	ISO228-G¾					785	31V7-70-S-35.030	70
		9 ... 300	1 ... 100	ISO228-G1					1,125	31V7-71-S-35.030	71
		16 ... 600	1 ... 100	ISO228-G1¼	350	35	5,000		1,380	31V7-72-S-35.030	72
	QT 110 analog 4 ... 20 mA	1.0 ... 10.0	1 ... 30	ISO228-G¼	420	42	6,000	± 0.7 %[3]	740	31G7-01-S-35.030	–
		2.0 ... 75.0	1 ... 100	ISO228-G¾					895	31G7-70-S-35.030	–
		9 ... 300	1 ... 100	ISO228-G1					1,235	31G7-71-S-35.030	–
		16 ... 600	1 ... 100	ISO228-G1¼	350	35	5,000		1,490	31G7-72-S-35.030	–
... without ISDS	**QT 100** frequency (square wave)	1.0 ... 10.0	1 ... 30	ISO228-G¼	420	42	6,000	± 2.5 %[2]	630	31V7-01-35.030	–
		7.5 ... 75.0	1 ... 100	ISO228-G¾					785	31V7-70-35.030	–
		15 ... 300	1 ... 100	ISO228-G1					1,125	31V7-71-35.030	–
		25 ... 600	1 ... 100	ISO228-G1¼	350	35	5,000	± 2.0 %[2]	1,380	31V7-72-35.030	–
	QT 110 analog 4 ... 20 mA	1.0 ... 10.0	1 ... 30	ISO228-G¼	420	42	6,000	± 2.7 %[3]	740	31G7-01-35.030	–
		7.5 ... 75.0	1 ... 100	ISO228-G¾					895	31G7-70-35.030	–
		15 ... 300	1 ... 100	ISO228-G1					1,235	31G7-71-35.030	–
		25 ... 600	1 ... 100	ISO228-G1¼	350	35	5,000	± 2.2 %[3]	1,490	31G7-72-35.030	–

Technical data only valid for standard calibration viscosity

*: former product name RE4
1: other calibration viscosities on request
2: of current value
3: of final value
4: replaces „yy“ in the measuring set order numbers

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